

INTERNATIONAL SEARCH REPORT

International application No.
PCT/CA2004/001837

A. CLASSIFICATION OF SUBJECT MATTER

IPC⁷ G01F 23/00, G01F 23/30, G08B 21/00

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
CPD G01F 23/00, 30

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base, and, where practicable, search terms used)
CPD G01F 23/00, 30 and alarm, sound, emitter, Delphon ("fluid level" or "liquid level") and detector and (alarm or sound or emitter) and (vessel or container)); (sump and pump and water and alarm); ("water level" and float and alarm and battery); US WEST (sump and (water or liquid or fluid) and alarm and level and (indicator or detector) and (container or vessel) not pump)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category* | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|-----------|--|-----------------------|
| Y | US6337632 (Dickie et al) 8-Jan-2002 abstract, summary of invention and fig. 4 | 1, 8 |
| X | US6367096 (Quintana) 9-April-2002 abstract, column 2, lines 55-59, column 3, lines 45-50, fig 2. | 8 |
| Y | CA1261940 (Ottenhof) 26-September-1989 page 2, lines 8-23, all claims, figs. 2 and 3 | 1, 3, 4, 8 |
| Y | US5314313 (Janesky) 24-May-1994 abstract, summary of the invention, figs. 1 and 2 | 1, 2, 8, 9 |
| X Y | US6414598 (Freill et al) 2-July-2002 abstract, column 2, lines 53-62, column 3, lines 36-47, the claims | 8; 1, 11 |
| X Y | US5894611 (Toro) 20-April-1999 abstract, column 7, lines 4-29, figs. 1 and 3 | 1-4; 8-10 |
| X | US6060482 (Hill) 12-December-2000 | 1, 2; |

Further documents are listed in the continuation of Box C.

Patent family members are listed in annex.

| | |
|---|--|
| * Special categories of cited documents : | "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention |
| "A" document defining the general state of the art which is not considered to be of particular relevance | "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone |
| "E" earlier application or patent but published on or after the international filing date | "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art |
| "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) | "&" document member of the same patent family |
| "O" document referring to an oral disclosure, use, exhibition or other means | |
| "P" document published prior to the international filing date but later than the priority date claimed | |

Date of the actual completion of the international-type search
10 January 2005 (10-01-2005)

Date of mailing of the international-type search report
25 February 2005 (25-02-2005)

Name and mailing address of the ISA/
Commissioner of Patents
Canadian Patent Office - PCT
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.
PCT/CA2004/001837

| Patent Document Cited in Search Report | Publication Date | Patent Family Member(s) | Publication Date |
|---|---------------------|---|--|
| US6337632 | 08-01-2002 | CA2375037 A1 US6337632 B1 | 20-09-2002 08-01-2002 |
| US6367096 | 09-04-2002 | CA2342697 A1 EP1227193 A2 US6367096 B1 US2002095721 A1 | 25-07-2002 31-07-2002 09-04-2002 25-07-2002 |
| CA1261940 | 26-09-1989 | CA1261940 A1 | 26-09-1989 |
| US5314313 | 24-05-1994 | CA2124907 A1 US5314313 A | 24-12-1994 24-05-1994 |
| US6414598 | 02-07-2002 | CA2292901 A1 US6414598 B2 | 16-06-2001 02-07-2002 |
| US5894611 | 20-04-1999 | US5894611 A | 20-04-1999 |
| US6060482 | 09-05-2000 | AT175414T T AU650792 B2 AU2626592 A CA2081256 A1 CZ9203224 A3 DE4135473 A1 DE59209607D D1 DK539803T T3 EP0539803 A1 ES2125879T T3 FI924848 A GR3029450T T3 HU64068 A2 IL103546D D0 JP3257708B2 B2 MX9205869 A1 NO923974 A US6060482 A ZA9208290 A | 15-01-1999 30-06-1994 29-04-1993 29-04-1993 14-07-1993 29-04-1993 18-02-1999 30-08-1999 05-05-1993 16-03-1999 29-04-1993 28-05-1999 29-11-1993 15-03-1993 18-02-2002 01-04-1993 29-04-1993 09-05-2000 04-05-1993 |